CONTENTS OF THE PALEONTOLOGICAL JOURNAL FOR 1987

Number 1

Shevyreva, N.S. and L.K. Gabuniya
THE FIRST BINDING OF EURYMYLIDS (EURYMYLIDAE, MIXODONTIA, MAMMALIA) IN THE USSR 1

Bayshashov, B.U.
A NEW SPECIES OF *Sinotherium* FROM THE PLIOCENE OF KAZAKHSTAN 6

Zherikhin, V.V.
THE BIOCENOTIC REGULATION OF EVOLUTION 12

Panasenko, Ye.S. and V.S. Rudenko
SYSTEMATIC SIGNIFICANCE OF CERTAIN MORPHOLOGICAL CHARACTERISTICS OF ALBAILLELLIDAE (RADIOLARIA) 20

Sladkovskaya, M.G.
TABULATOMORPHIC CORALS FROM THE UPPER ORDOVICIAN OF SOUTHEASTERN UZBEKISTAN 30

Smirnova, T.N.
NEW TAXA OF LATE VOLGIAN AND EARLY HAUTERIVIAN BRACHIOPODS OF THE RUSSIAN PLATFORM 39

Goryunova, R.V. and V.D. Lavrent'yeva
THE NEW GENUS *Prophyllodictya*, THE EARLIEST REPRESENTATIVE OF CRYPTOSTOMID BRYOZOA 49

Gramm, M.N.
THE CENTRAL MUSCLE AREA OF SOME PALEOZOIC OSTRACODES 61

Gorokhov, A.V.
PERMIAN ORTHOPTERA OF THE INFRAORDER OEDISCHIIDEA (ENSIFERA) 72

Vorob'yeva, E.I.
A POROLEPID CROSSOPTERYGIAN FISH FROM THE MIDDLE DEVONIAN OF ESTONIA . . 85

Bannikov, A.F.
FIRST DISCOVERY OF HOLOCENTRID FISHES (BERYCIFORMES) IN THE MIOCENE OF THE CAUCASUS 96

Gubin, Yu.M.
ON THE SYSTEMATIC POSITION AND AGE OF SOME LABYRINTHODONTS FROM THE UPPER PERMIAN DEPOSITS OF THE REGION WEST OF THE URALS 104

Yesaulova, N.K.
UPPER PERMIAN SPHENOPHYLLS FROM THE KAMA RIVER REGION AND SOME QUESTIONS OF THE SYSTEMATICS OF THE VEGETATIVE SHOOTS OF THE SPHENOPHYLLACEAE 110

Doludenko, M.P. and Ye.I. Kostina
ON THE CONIFERS OF THE GENUS *Elatides* 120

SHORT NOTES

Nitecki, M.G. and M.B. Gnilovskaya
Petropolissia—A NEW DEVONIAN RECEPTACULITID GENUS 126

Lysenko, N.I. and G.A. Aliyev
A REVISION OF THE GENUS *Diozoptyxis* AND A NEW FAMILY GASTROPODS 128

Lazarev, S.S. and K.V. Simakov
NEW PRODUCTACEA (BRACHIOPODS) FROM THE DEVONIAN-CARBONIFEROUS BOUNDARY DEPOSITS OF THE OMOLON MASSIF 133

Erlanger, O.A.
THE MICROSTRUCTURE OF THE SHELL WALL IN SPIRIFERIDS OF THE GENUS *Davidsonina* 137

Number 2

Paaver, K.L. (deceased)
ON THE STUDY OF MICROEVOLUTIONARY PROCESSES ON PALEONTOLOGICAL MATERIALS 1

Nevesskaya, L.A., M.A. Akhmet'yev, A.K. Bogdanovich, V.I. Zhegallo, L.B. Il'ina, G.I. Karmishina (decreased), M.Ya. Serova, Ye.K. Sychevskaya, and A.L. Chepalyga
A BIOGEOGRAPHIC ZONATION OF THE USSR IN THE NEOGENE 6

Sabirov, A.A.
NEW SPECIES OF UPPER SILURIAN AND DEVONIAN FORAMINIFERA FROM TADZHIKISTAN 18

Leven, E.Ya.
THE SYSTEM AND PHYLOGENY OF THE FAMILY SCHUBERTELLIDAE SKINNER, 1931 . . 25

Il'ina, T.G.
THE MORPHOGENESIS AND MICROSTRUCTURE OF THE CARINAE IN CORALS OF THE GENUS *Lophocarinophyllum* 36

Kuzina, L.F.
THE VISEAN AMMONOID ASSEMBLAGE 49

Ushatinskaya, G.T.
UNUSUAL INARTICULATE BRACHIOPODS FROM THE LOWER CAMBRIAN SEQUENCE OF MONGOLIA 59

Kovalev, V.G.
THE MESOZOIC MYCETOPHILOID DIPTERA OF THE FAMILY PLECIOFUNGIVORIDAE . . 67

Ponomarenko, A.G.
NEW MESOZOIC WATER BEETLES (INSECTA, COLEOPTERA) FROM ASIA 79

Ivakhnenko, M.F. and G.I. Tverdokhlebova
A REVISION OF THE PERMIAN BOLOSAUROMORPHS OF EASTERN EUROPE 93

Ogurtsova, R.N. and V.N. Sergeyev
THE MICROBIOTA OF THE UPPER PRECAMBRIAN CHICHKANSKAYA FORMATION IN THE LESSER KARATAU REGION (SOUTHERN KAZAKHSTAN) 101

SCIENTIFIC RESEARCH METHODS

Kustov, A.I., M.A. Kulakov, A.I. Morozov, and O.A. Erlanger
ON THE POTENTIAL USE OF THE SCANNING ACOUSTIC MICROSCOPE IN PALEONTOLOGY 113

NOMENCLATURAL QUESTIONS

Abramov, B.S. and A.D. Grigor'yeva
Doescherella —A NEW GENERIC NAME FOR SPIRIFERIDS (BRACHIOPODS) 117

SHORT NOTES

Khabarova, T.N.
NEW FORAMINIFERA FROM THE BAJOCIAN IN THE SOUTHEASTERN PART OF THE RUSSIAN PLATFORM 118

Barskova, M.I.
NEW SPECIES OF LOWER CAMBRIAN GASTROPODS FROM THE UCHUR-MAYA REGION . . 121

Alabushev, A.I.
DISTINCTIVE FEATURES OF THE MORPHOLOGY OF THE NORTH PACIFIC *Cleoniceras* REPRESENTATIVES AND THEIR PLACE IN THE SYSTEM OF THE ALBIAN AMMONITES (HOPLITIDAE) 125

Vasilevskaya, N.D.
A NEW UPPER TRIASSIC REPRESENTATIVE OF THE PELTASPERMIC PTERIDOSPERMS FROM VEST SPITSBERGEN ISLAND 129

OBITUARY NOTICE

VSEVOLOD ANDREYEVICH VAKHRAMEYEV (1912-1986) 132

Number 3

Naydin, D.P., I.S. Barskov, and C.I. Kiyashko
THE NATURE OF THE ARAGONITE AND CALCITE IN THE ROSTRA OF UPPER CRETACEOUS BELEMNITES OF WESTERN TAYMYR: INFORMATION ON THE OXYGEN AND CARBON STABLE ISOTOPE COMPOSITION 1

Krasilov, V.A.
PERIODICITY IN THE DEVELOPMENT OF LIFE 7

Nitecki, M.H. and M.B. Gnilovskaya
MORPHOLOGICAL ANALYSIS OF RECEPTACULITIDS AS EXEMPLIFIED BY THE GENUS *Petropolissia* 13

Il'ina, L.B.
EVIDENCE OF BORING IN SHELLS OF BRACKISH-WATER GASTROPODS 23

Klets, A.G.
BRACHIOPODS OF THE FAMILY ELYTHIDAE FROM THE LOWER PERMIAN OF THE KHABAROVSK TERRITORY 31

Krupina, N.I.
A NEW DIPNOAN FISH FROM THE UPPER DEVONIAN OF THE TULA REGION 37

Bannikov, A.F.
THE PHYLOGENETIC RELATIONSHIPS OF THE CARANGID FISHES OF THE SUBFAMILY CARANGINAE 44

Mikhaylov, K.Ye.
SOME ASPECTS OF THE STRUCTURE OF THE SHELL OF THE EGG 54

Shuyskiy, V.P.
Lopsiella Mansica — A NEW REPRESENTATIVE OF ACETABULARIACEAN ALGAE FROM THE GIVETIAN IN THE URALS 62

Makulbekov, M.N.
THE EVOLUTION AND CHANGES IN THE PALEOGENE PLANT ASSEMBLAGES OF KAZAKHSTAN, MIDDLE ASIA AND MONGOLIA 69

Arkhangel'skaya, A.D.
A NEW GENUS AND CERTAIN SPECIES OF SPORES FROM THE FRASNIAN STAGE OF THE VOLGOGRAD DISTRICT 76

RESEARCH METHODS

Klenina, L.N. and N.S. Ovnatanova
THE THIN SECTION DIAGNOSIS OF CONODONTS 84

SHORT NOTES

Zhuravleva, F.A.
NEW TROCHOCEROID NAUTILOIDS FROM THE DEVONIAN OF THE USSR 88

Mitta, V.V.
A NEW AMMONITE FROM THE VOLGIAN STAGE OF MOSCOW 93

Gramm, M.N.
Zanirinella —A NEW GENUS OF PALEOZOIC OSTRACODES 95

Selezneva, A.A.
A PALEONISCOID FISH FROM THE CARBONIFEROUS NEAR MOSCOW 100

Tatarinov, L.P.
A NEW PRIMITIVE CYNODONT FROM THE UPPER PERMIAN OF THE SOUTHERN URALS . . 103

Doludenko, M.P. and Yu.V. Teslenko
NEW DATA ON THE LATE ALBIAN FLORA OF THE UKRAINE (OUTSKIRTS OF KANEV) . . 108

Krashenninikov, V.A., V.V. Menner, D.M. Rauzer-Chernousova, M.N. Solov'yeva, A.V. Kanygin, and P.S. Lyubimova
YELENA NIKOLAYEVNA POLENOVA (1915-1987). 113

Sokolov, V.S., L.P. Tatarinov, A.Yu. Romanov, M.A. Akhmet'yev, A.V. Goman'kov, A.B. German, M.V. Durante, I.A. Dobruskina, M.P. Doludenko, I.A. Ignat'yev, Ye.L. Lebedev, G.N. Savodnikov, and O.P. Yaroshenko
SERGEY VIKTOROVICH MEYEN (1935-1987) 115

Number 4

Paleontology in the USSR (1917-1987) 1

Nevesskaya, L.A., L.B. Il'ina, N.P. Paramonova, S.V. Popov, Ye.B. Babak, and I.A. Goncharova
THE EVOLUTIONARY TRANSFORMATIONS OF MOLLUSKS IN BASINS OF VARIOUS TYPES 2

Bondarenko, O.B.
NEW DATA ON THE GENUS *Diploepora* (SILURIAN HELIOLITID CORALS) 13

Krasilova, I.N.
THE OLDEST REPRESENTATIVES OF THE BIVALVE MOLLUSKS 21

Andreyeva, O.N.
THE CAMBRIAN ARTICULATE BRACHIOPODS 27

Lazarev, S.S.
THE ORIGIN AND SYSTEMATIC POSITION OF THE MAIN GROUPS OF PRODUCTIDS (BRACHIOPODS) 39

Yanbulatova, M.G.
NEW LATE FAMENNIAN OSTRACODES OF MUGODZHARY 50

Kozlov, M.V.
NEW MOTH-LIKE LEPIDOPTERA FROM THE BALTIC AMBER 56

Bidashko, F.G. and K.P. Proskurin
THE ENTOMOLOGICAL AND CARPOLOGICAL RECONSTRUCTION OF THE BIO-ENVIRONMENT OF THE SINGILIAN (MIDDLE PLEISTOCENE) OF THE LOWER VOLGA 66

Nesov, L.A.
THE PALEOGENE SEA TURTLES OF SOUTHERN KAZAKHSTAN AND THE PHYLOGENETIC RELATIONSHIPS BETWEEN THE TOXOCHELYIDAE AND THE CHELONIIDAE 73

Sadovnikov, G.N.
NEW DATA ON THE STRUCTURE AND DISTRIBUTION OF THE FERNS THAINGUYENOPTERIS AND HYRCANOPTERIS 85

German, A.B.
NEW ANGIOSPERMS FROM THE TURONIAN OF NORTHWESTERN KAMCHATKA 93

SHORT NOTES

Zakrevskaya, Ye.Yu. and Ye.L. Portnaya
NEW ORBITOID FORAMINIFERS FROM THE BODRAKIAN STAGE OF THE CRIMEA 104

Menakova, G.N. and I.A. Breyvel'
PARMULA—A NEW LATE SILURIAN BRACHIOPOD GENUS FROM THE SOUTHERN TIEN SHAN AND THE URALS 109

Baranov, V.V.
BUTKOVIA—A NEW ATRYPID (BRACHIOPOD) GENUS 112

Prozorovskaya, Ye.L.
BRACHIOPODS FROM THE TURONIAN SEDIMENTS IN THE WEST OF MIDDLE ASIA . . . 115